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WPI Acc No: 96-050788/199606

DNA encoding transforming growth factor beta MP-121 - has mitogenic and differentiation-inducing activity, e.g. for use in wound healing
Patent Assignee: BIOPHARM GES BIOTECHNOLOGISCHEN ENTWICKL (BIOP-N)
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Number of Countries: 065 Number of Patents: 007
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
DE 19511243	A1	19960104	DE 1011243	A	19950327	C07K-014/495	199606 B
WO 9601316	A1	19960118	WO 95EP2552	A	19950630	C12N-015/12	199609
AU 9529798	A	19960125	AU 9529798	A	19950630	C12N-015/12	199618
ZA 9505444	A	19960424	ZA 955444	A	19950630	C07K-000/00	199622
JP 10502527	W	19980310	WO 95EP2552	A	19950630	C12N-015/09	199820
			JP 96503546	A	19950630		
US 5807713	A	19980915	WO 93EP350	A	19930212	C12N-015/19	199844
			US 94289222	A	19940812		
			US 95482577	A	19950607		
DE 19580745	T	19990311	DE 1080745	A	19950630	C12N-015/11	199916
			WO 95EP2552	A	19950630		

Priority Applications (No Type Date): DE 4423190 A 19940701; EP 92102324 A 19920212

Cited Patents: 01Jnl.Ref; EP 222491; WO 9316099

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
DE 19511243	A1		15			
WO 9601316	A1	G	54			

Designated States (National): AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TT UA UG US UZ VN

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE SZ UG

AU 9529798	A		Based on		WO 9601316
ZA 9505444	A	73			
JP 10502527	W	48	Based on		WO 9601316
US 5807713	A		CIP of	WO 93EP350	
			CIP of	US 94289222	
DE 19580745	T		Based on		WO 9601316

Abstract (Basic): DE 19511243 A

New DNA (I), encoding a protein (A) of the transforming growth factor beta (TGF beta) family is: (a) part of a 2272 bp sequence (as given in the specification) that encodes the mature protein, opt. with other parts of the sequence; (b) sequence equiv. to (a) within the degeneracy of the genetic code; (c) an allelic deriv. of (a) or (b); or (d) a sequence that hybridises with (a)-(c) provided it contains the entire sequence for mature (A). Also new are: (1) vectors contg. at least one copy of (I); (2) host cells contg. (I) or these vectors; (3) (A) as above; etc.

USE - (A) (which has mitogenic and/or differentiation-inducing properties), (B) and (C) are useful for preventing or treating injuries to the bone, cartilage, connective tissue, skin, mucosa, endothelium, epithelium, nerves, brain, kidney or teeth; in dental implantation; in wound healing and tissue regeneration; as morphogens for inducing

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growth of hepatic tissue or for proliferation of precursor or bone marrow cells; for maintenance of differentiation; for treating fertility disorders and as contraceptives.

—ADVANTAGE—Use of (A) in the form of chimeric proteins or heterodimers makes it possible to vary specificity to suit particular applications.

Dwg.0/3

Derwent Class: B04; D16

International Patent Class (Main): C07K-000/00; C12N-015/09; C12N-015/11; C12N-015/12; C12N-015/19

International Patent Class (Additional): A61K-031/70; A61K-038/17; A61K-038/18; A61K-038/22; A61K-048/00; C07H-021/00; C07K-014/195; C07K-014/495; C07K-014/52; C07K-014/575; C07K-014/71; C07K-016/00; C07K-016/18; C07K-016/22; C07K-019/00; C12N-001/15; C12N-001/21; C12N-005/10; C12N-015/18; C12N-015/63; C12N-015/70; C12N-015/80; C12N-015/82; C12N-015/85; C12P-021/02; C12P-021/08; C12R-001-19; C12R-001-91

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